

PROCEEDINGS OF THE SIXTY-SIXTH ANNUAL MEETING

JOHN L. ZIMMERMAN, SECRETARY

The Sixty-sixth Annual Meeting of The Wilson Ornithological Society was held Wednesday, 5 June to Sunday, 9 June 1985 at the University of Colorado in Boulder, Colorado, and in joint session with the Cooper Ornithological Society for the fourth time. The meeting was sponsored by the University of Colorado, The Denver Museum of Natural History, and the Boulder Audubon Society. Cynthia Carey chaired the Local Committee on Arrangements composed of Carl Bock, Clait Braun, Bob Cohen, Alex Cruz, Becky Evans, Diane Larson, Wes Miles, Joe Ortega, Ronald Ryder, Tom Strong, Diana Tomback, and Betsy Webb.

The Council met from 08:00 to 17:00 on Wednesday, 5 June. Registration for the 222 members and guests attending opened that afternoon, and everyone enjoyed an outdoor barbecue and social on the patio of Kittredge Commons that evening. The opening session of the meeting was held Thursday morning at 08:45 in the Chemistry Building, and the scientific program was presented daily in double sessions until Saturday at 16:00. The local committee scheduled early morning field trips every day and had arranged daily guest-spouse tours to Central City, the Coors Brewery, the Broadmoor Hotel, the Air Force Academy, the Denver Art Museum, and the Colorado Heritage Center. Other special events were an evening program of slides and films on Thursday, including an outstanding multi-screen presentation by Perry Conway, a freelance natural history photographer from Boulder, and a wine and cheese reception held in the University's Memorial Center that featured the entries by amateur artists for the Sutton Award. On Wednesday afternoon the meeting of the International Council for Bird Preservation was held in the University Events Center.

On Sunday, all-day field trips were conducted to Rocky Mountain National Park, led by Clait Braun, and the Pawnee National Grasslands, led by Ron Ryder.

The annual banquet was held amid dioramas of African wildlife at The Denver Museum of Natural History. The following awards were presented:

EDWARDS PRIZE (for the best major article in volume 96 of *The Wilson Bulletin*)

J. M. Sprenkle and C. R. Blem, "Metabolism and food selection of eastern House Finches," *Wilson Bull.*, 96:184-195.

MARGARET MORSE NICE AWARD

Andrew Balestracci, "The effects of an increasing Double-crested Cormorant population on a Great Black-backed-Herring Gull nesting colony."

LOUIS AGASSIZ FUERTES AWARDS

Gloria R. Dobush, "Use of breeding ground resources for reproduction by White-winged Scoters."

John M. Marzluff, "Social communication and recognition in Pinyon Jays."

PAUL A. STEWART AWARDS

Carola A. Haas, "Site fidelity and dispersal of birds in a patchy environment."

Geoffrey E. Hill, "The reproductive consequences of subadult plumage in male Black-headed Grosbeaks."

Wendy M. Jackson, "Kleptogamy and kleptogamy-avoidance mechanisms in a polyandrous and monogamous jacana."

Frank J. Joyce, "Nest site selection by three passerines associates of Hymenoptera in Central American dry forest."

Mark J. Kasprzyk, "Significance of migratory stopovers for Semipalmated Sandpipers."

Lisa H. MacIvor, "Foraging success of the Bonaparte's Gull: energetics and interaction with prey."

ALEXANDER WILSON PRIZE (for best student paper at the meeting)

Paul Hendricks, University of Montana, "Foraging ecology of alpine-nesting Water Pipits."

GEORGE M. SUTTON AWARD

Karen Allaben-Confer

Jonathon Alderfer—Honorable mention

FIRST BUSINESS MEETING

The first business meeting was held at 09:00 on Thursday, 6 June with President Jerome A. Jackson presiding. Those appointed to the auditing committee were announced. Secretary Zimmerman summarized the highlights of Wednesday's Council meeting, including the report of the nominating committee chaired by George Hall (with A. S. Gaunt and Richard Conner as members). It was also reported that Keith Bildstein was reelected Editor of *The Wilson Bulletin*, and that Life memberships will be increased to \$400 effective in 1987. Elliott Tramer is chairman of the Centennial Committee, and the secretary reported that the Council had voted to provide a Centennial Fund to which members can contribute to assist the Society for the 1988 meeting. Lastly, the secretary read the names of members who had died in the past year—H. E. Clements (Fairport, NY), John H. Foster (Wayne, PA), W. W. H. Gunn (Bobcaygeon, ONT), Rodolphe Meyer de Schauensee (Devon, PA), Demund W. Mudge, Jr. (Dallas, TX), George W. North (Burlington, ONT), and C. Brooke Worth (Delmont, NJ)—while the assembled members stood in their honor.

Robert D. Burns then gave the treasurer's report.

REPORT OF THE TREASURER

1 JANUARY 1984 TO 31 DECEMBER 1984

GENERAL FUNDS

RECEIPTS

Dues collected in 1984

Regular Memberships for 1984	\$ 20,312.03
For 1985	15,952.00
Sustaining Memberships for 1984	315.00
Student Memberships for 1984	2,987.25
For 1985	1,434.00
Family Memberships for 1984	407.50
For 1985	<u>416.00</u>

TOTAL DUES \$ 41,823.78

Subscriptions to *The Wilson Bulletin*

For 1984	\$ 7,950.50
For 1985	<u>1,777.75</u>

TOTAL SUBSCRIPTIONS \$ 9,728.25

Back Issues of *The Wilson Bulletin* \$ 1,601.00

Interest and Dividends \$ 22,639.61

Royalties \$ 1,776.99

Contributions from Authors \$ 1,999.00

Contributions to the Student Awards Funds \$ 1,096.00

Contributions to Endowment and Life Memberships \$ 3,935.00

TOTAL RECEIPTS—1 Jan.—31 Dec. 1985 \$ 84,599.63

DISBURSEMENTS

The Wilson Bulletin

December 1983	\$ 15,862.39
March 1984	11,484.32
June 1984	13,158.20
September 1984	11,869.14
Colorplates	3,107.95
Editorial Expenses Barlow	5,950.00
Editorial Expenses Bildstein	<u>2,356.72</u>

TOTAL PRODUCTION COSTS \$ 63,788.72

OSNA Expenses \$ 13,759.33

Deposit of Student Award Contributions to Dreyfus Liquid Assets \$ 1,096.00

Deposit to Student Award Accounts from Endowment \$ 2,900.00

Dues to International Council for Bird Preservation 1984 \$ 100.00

Travel Reimbursement for Editors \$ 773.99

Postage, Officers, and Back Issue Mailings \$ 270.00

Treasurer's Bond \$ 51.00

Refunds \$ 15.00

Balance of 1978 Van Tyne Library Funds sent to Van Tyne Library \$ 562.32

Expenses over income of 1984 Annual Meeting \$ 325.83

TOTAL DISBURSEMENTS—1 Jan.—31 Dec. 1984 \$ 83,641.19

1984 Income over Expenses \$ 958.44

CASH ACCOUNTS

Checking Account, Peoples Bank, Gambier, OH, 31 Dec. 1984	\$ 6,412.43	
Savings Account, 31 Dec. 1984	212.43	
Dreyfus Liquid Assets, 31 Dec. 1984	<u>39,790.57</u>	
TOTAL CASH ON HAND		\$ 46,415.43

DESIGNATED ACCOUNTS

LOUIS AGASSIZ FUERTES RESEARCH FUND

RECEIPTS

Endowment Earnings	\$ 450.00
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DISBURSEMENTS

David Lemmon	\$ 450.00
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ALEXANDER WILSON PRIZE

RECEIPTS

Endowment Earnings	\$ 100.00
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DISBURSEMENTS

Peter Frederick	\$ 100.00
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ERNEST P. EDWARDS PRIZE

RECEIPTS

E. P. Edwards	\$ 150.00
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DISBURSEMENTS

John L. Zimmerman	\$ 150.00
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PAUL A. STEWART AWARDS

RECEIPTS

Endowment Earnings	\$ 1,800.00
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DISBURSEMENTS

Eric K. Bollinger	\$ 300.00
Paul E. Kendra	300.00
Cynthia Ann Staicer	300.00
Mark A. Stern	300.00
Tom C. Will	300.00
Ann Marie Wyckoff	300.00

STUDENT MEMBERSHIP AWARDS

RECEIPTS

Endowment Earnings	\$ 224.00
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DISBURSEMENTS

16 Student Memberships Awarded	\$ 224.00
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ANNUAL MEETING RESERVE FUND

1983 Balance	\$ 229.00
1984 Expenses over Income	325.83
1984 Balance	(96.83)

ENDOWMENT^a

Value of Endowment Fund, 31 Dec. 1983, at cost	\$198,791.58
Losses due to Sales of Bonds	<u>2,065.38</u>

Value of Endowment Fund 31 Dec. 1984, at cost	\$196,726.20
Earnings from Endowment Fund for 1984	\$ 22,639.61

* Account 20-05-001-7150567 Mellon Bank (Central) N.A., formerly—The Central Counties Bank, State College, PA.

The Editor's report was presented by Keith L. Bildstein. Summaries of the reports of Jon C. Barlow and Keith L. Bildstein are presented below.

EDITORS' REPORTS—1984

Volume 96 (1984) of *The Wilson Bulletin* was the largest in the history of the Society and contained 775 numbered pages. The December 1984 issue was the largest single issue ever published by the Society at 261 numbered pages. The editorial offices received 25 major articles and 28 notes between 1 January and 15 May 1984. The latter is the date after which all manuscripts received by me (except five) were sent on to Editor-elect Keith Bildstein.

Again I thank everyone who made my seven-year tenure as Editor a pleasant one. I'm pleased to have been able to serve my colleagues and profession in so rewarding a manner.

Jon C. Barlow, *Retired Editor*

On 15 May 1984 I assumed the duties of Editor of *The Wilson Bulletin* beginning with Volume 97 (1985). Since then I have received 135 manuscripts (over an 11-month period through 15 April 1985). Forty-eight of the mss were submitted as Major Papers, 87 were submitted as General Notes. Of these, 29% have been accepted for publication, 23% have been rejected, 27% have been returned to authors for revision, and 21% are currently being reviewed by referees. The 77 mss received in 1984 were returned to their authors 98 ± 32 days after their receipt. I hope to reduce this turn-around time by adding to the list of referees who are willing to review papers without advance notice. There are plans for color plates for all issues in 1985, as well as for the first issue in 1986. The March 1985 issue was published in mid-April. The June 1985 issue will be published no later than mid-July, and the September 1985 issue should be published on time in September.

I have received essential assistance from many people in the Editorial Office and elsewhere. Jon Barlow, Margaret May, and Janet Mannone, as well as the staff at Allen Press, helped to make my assumption of the editorship a smooth one. Others that I thank for outstanding service include: Associate Editors, M. W. Collopy, R. N. Conner, J. P. Myers, W. M. Shields, and J. R. Walters; Assistant Editors, A. E. Conway, E. J. Hawfield, J. A. Hovis, J. W. Johnston, J. B. Olson, and D. L. Rankin; Review Editor, G. A. Hall; Color Plate Editor, W. A. Lunk; Index Editor, K. G. Beal; and numerous members of The Wilson Society, including S. Gaunt, A. Gaunt, and J. Jackson. I also thank the 165 volunteer referees who reviewed mss for *The Wilson Bulletin* during the past 11 months.

Keith L. Bildstein, *Editor*

SECOND BUSINESS MEETING

President Jackson called the second business meeting to order at 13:20 on Saturday, 8 June. Chairman Zernickow presented the report of the Auditing Committee:

We, the undersigned, have reviewed the records presented by the Treasurer covering the

period of 1 January 1984 to 31 December 1984 with the intent of verifying that the records correctly reflect the assets of the Society and the correct and timely posting of income and expenditures during this period. We found no errors and are satisfied that the financial report of the Treasurer correctly reflects the financial health of the Society. Further, we commend Dr. Robert D. Burns for his excellent work in carrying out his responsibilities in an exemplary fashion both for the current year and for the long range financial health of the Society.

William A. Klamm, *member*
Robert A. Whiting, *member*
Hubert P. Zernickow, *chairman*

The move to accept the report of the Auditing Committee was made by Clait Braun, seconded by Helmut Mueller, and passed by the membership.

The Report of the Nominating Committee was presented by Chairman Hall. It was moved by Thomas Vawter and seconded by Kathleen Anderson that the following slate of officers be elected by acclamation. The motion passed. For 1985–1986: President, Clait E. Braun; First Vice-President, Mary H. Clench; Second Vice-President, Jon C. Barlow; Secretary, John L. Zimmerman; Treasurer, Robert D. Burns; Council Member (term to expire in 1987), Curtis S. Adkisson; Council Member (term to expire in 1988), Richard B. Stiehl.

New Members of The Wilson Society were formally elected to membership through the motion of Elliot Tramer, seconded by Glen Woolfenden, and passed by the membership.

Nancy Mueller presented the report of the Resolutions Committee (Jim Tate, chairman).

REPORT OF THE RESOLUTIONS COMMITTEE

RECOGNIZING, that the Cheyenne Bottoms Wildlife Area of central Kansas is an outstanding marshland habitat with extraordinary wildlife values, and

RECOGNIZING, that the marshland is used by endangered species, such as Peregrine Falcons, Bald Eagles, and Whooping Cranes, and

RECOGNIZING, that the area is traditionally used by millions of shorebirds, marshbirds, and waterfowl each season, and

RECOGNIZING, that these numbers of shorebirds are of international significance as they represent the greatest concentration east of the 105th longitudinal line, and

WHEREAS, other wetland areas in the Great Plains are rapidly disappearing, and

WHEREAS, streamflows throughout the western Great Plains are decreasing and many are threatened by agricultural and municipal uses, and

WHEREAS, state agencies are currently launching a feasibility study of how to save this critical wetland habitat,

THEREFORE BE IT RESOLVED that the Cooper and Wilson Ornithological societies urge the responsible agencies to work vigorously to protect the habitat for all migratory bird resources, and

THEREFORE BE IT FURTHER RESOLVED that the Cooper and Wilson Ornithological societies strongly urge the responsible agencies to consider all possibilities for obtaining, holding, and using the available water resources at Cheyenne Bottoms in a more effective manner to protect the usage of the area by migratory bird resources.

Glen Woolfenden moved, and Helen Lapham seconded, to accept this resolution. The motion passed.

WHEREAS, Alexander Wilson is known to ornithologists as the Father of American Ornithology, and in the last decade before his untimely death in 1813 at the age of 47, wrote

the text of his *American Ornithology* and completed 76 hand colored plates depicting more than 300 individual birds, and

WHEREAS, according to his biographer, George Ord, Alexander Wilson once expressed a desire to be "buried in some rural spot sacred to peace and solitude where the charms of nature might invite the steps of the votary of the muses and the lover of science, and where birds might sing over his grave," and

WHEREAS, Alexander Wilson's grave site at Gloria Dei (Old Swede's) Church in Philadelphia has fallen into disrepair, and efforts are now being made to repair the original marker and brick walkway surrounding it and to plant the area with shrubs attractive to birds,

THEREFORE BE IT RESOLVED that The Wilson Ornithological Society enthusiastically supports the efforts of the Scottish Historic and Research Society and other concerned citizens of Philadelphia to help fulfill Alexander Wilson's wishes through the restoration and plantings.

Richard Banks moved, and John Zimmerman seconded, to accept this resolution. The motion passed. It was pointed out by President Jackson that the Council had voted to contribute \$200 towards this project, and members are encouraged to support this effort in spirit as well as financially. Contributions in the name of the Society should be sent to the Treasurer.

WHEREAS, the Cooper and Wilson Ornithological societies held their fourth joint meeting from 5-9 June 1985 at Boulder, Colorado, at the invitation of the University of Colorado, the Denver Museum of Natural History, and the Boulder Audubon Society, and

WHEREAS, the local Committee, chaired by Dr. Cynthia Carey, arranged varied and stimulating activities, including excellent food and drink, accommodations, evening programs, and field trips, and

WHEREAS, the scientific program committee, chaired by Drs. Carl E. Bock and Mary H. Clench, assembled an outstanding slate of stimulating technical papers,

THEREFORE BE IT RESOLVED that the Cooper and Wilson Ornithological societies extend sincere appreciation to all those organizations and individuals who worked so diligently to make this a successful and stimulating meeting.

It was moved by Helmut Mueller and seconded by Ralph Schreiber to accept this resolution. Motion passed.

President Jackson thanked the members of the Society for their cooperation during his two-year tenure. Richard Banks moved, and Clait Braun seconded, to adjourn the meeting. Motion passed.

The reports of the standing committees were given as follows:

REPORT OF THE COMMITTEE ON STUDENT MEMBERSHIPS—1984

A total of 209 letters was sent to selected members of The Wilson Ornithological Society who were in positions that afforded the identification of students eligible for the Student Membership Awards provided by the Society. In addition to a set of application materials, a form was provided on which members could list the names of students who were not being nominated for an award but who should be sent information regarding student membership in the Society. Announcements of the availability of these awards were also made in *The Wilson Bulletin* and in the *Ornithological Newsletter*. Application materials were sent in response to 18 letters of inquiry that were probably generated by these announcements.

Completed applications were received from 31 nominees. Members also provided the names of 14 students to whom an invitation to join the Society was sent. As in the past,

two criteria were used by the committee in the evaluation: (1) the applicant's demonstrated commitment to ornithology and (2) the expectation for a long-term professional involvement in ornithology. Twenty-nine candidates qualified. Their names and schools are listed below:

Jean V. Adams, Bradley Univ.; Terry Armstrong, Queen's Univ.—Ontario; James F. Berge, Texas Tech. Univ.; Reed Bowman, MacDonald College; Michael W. Brown, Iowa State Univ.; David G. Cook, Texas Tech. Univ.; Thomas I. Crossman, Univ. Connecticut; Clyde D. Cummins, Miami Univ.; Tristan J. G. Davis, Louisiana State Univ.; Barrett A. Garrison, Virginia Polytechnic Institute and State Univ.; Joseph A. Gubanyi, Univ. Nebraska; Danny J. Ingold, Mississippi State Univ.; Walter N. Johnson, Univ. Maine; Nedra K. Klein, Louisiana State Univ.; Natasha C. Kline, Univ. Miami; Jacqueline J. Lape, North Carolina State Univ.; David Lemon, Univ. Toledo; Mei-yao C. Louis, Univ. Minnesota—Duluth; Richard W. Lundquist, Univ. Washington; Sarah J. Madsen, Univ. Washington; D. James Montjoy, Queen's Univ.—Ontario; David C. Morimoto, Boston Univ.; Cecilia M. Riley, Univ. Arkansas; BethAnn Sabo, George Mason Univ.; Virginia M. Scarpino, State Univ. New York—Geneseo; John M. Shipley, Jr., Idaho State Univ.; Douglas G. Sheeley, Texas Tech. Univ.; Stefan Sobkowiak, MacDonald College—Quebec; Kimberly A. With, San Francisco State Univ.

It was particularly gratifying that there were four undergraduates among those receiving Student Membership Awards. Unsuccessful student award nominees were sent letters inviting them to join the Society.

Richard N. Conner, *Chairman*

MEMBERSHIP COMMITTEE REPORT—1984

The total paid membership in the Society was 2706 as of 14 April 1985. Two hundred and one new members joined the Society this past year. My office handled 62 new membership requests. Of these, 34 came from membership brochures, 4 from the ONSA Newsletter, 4 from *The Wilson Bulletin* mailing cover, and 20 from miscellaneous sources. The remaining originated from "dues notice" and were handled completely by ONSA. I predict that the revision of the "Membership Inquiries" notice on the inside back cover of *The Wilson Bulletin* in Volume 96(1), will increase the number of requests I will handle. The display board and membership brochures are available for local meetings. Anyone wishing brochures or use of the display board is encouraged to contact me.

Richard Stiehl, *Chairman*

LIBRARY COMMITTEE REPORT—1984

The calendar year 1984 was another satisfactory, if not particularly outstanding, one for the Josselyn Van Tyne Memorial Library. Our Society membership continued its use of the facility and its fine cooperation in helping to augment it. Janet Hinshaw continued to handle our affairs most capably.

Loans of 160 items were made to 51 members in 80 separate transactions during the year.

Donations of 473 items (including 18 books, 170 reprints, 219 journal issues, 65 reports and pamphlets, 2 theses, and 1 translation) came from 22 individuals. These were: M. Bechard, B. G. Beddall, A. J. Berger (207 items, or some 44% of the total), F. Evans, S. Fefer, N. L. Ford, J. Gapyczynski, S. M. Goodman, J. Haffer, J. Hinshaw, W. Hoffman, S. Holohan, F. E. Lohrer, H. Mayfield, D. McWhirter, T. Miley, S. Nesbitt, R. B. Payne, A. C. Simon, W. Southern, R. W. Storer, T. Van't Hof, J. D. Webster, and Col. L. R. Wolfe.

From the New Book Fund, 16 new books were purchased; to it was added a total of \$400

from the sale of 20 duplicate books and journals. Approximately 500 journal issues from our stock of duplicates were traded with other libraries for those needed to fill gaps.

Through 119 exchanges of *The Wilson Bulletin* we received 157 journals, books, and reprints. Thirty-one gifts (40 titles) and 7 subscriptions (10 titles) raised to 207 our total of journals and other items currently received.

There were declines, from last year's totals, in a number of categories, most notably in donations received. Some of these are easily explained, and probably there is no overall drop in member support for the library. We continue to hope, however, for an increase.

William A. Lunk, *Chairman*

PAPERS SESSION

The scientific papers sessions were arranged by Carl E. Bock and Mary H. Clench. Individual sessions were chaired by Clait Braun, Alexander Cruz, Frank B. Gill, Douglas B. Inkley, J. P. Myers, Kenneth C. Parkes, Richard T. Reynolds, Peter C. Stacey, Stanley A. Temple, Diana F. Tomback, Jared Verner, and Carol M. Vleck.

David S. Lee and Mary K. Clark, North Carolina State Museum of Natural History, Raleigh, NC, "Summer food, molt, weights, mercury loads, and activity patterns of American Swallow-tailed Kites."

Brian D. Linkhart, Dept. Fishery and Wildlife Biology, Colorado State University, Ft. Collins, CO; Richard T. Reynolds, Rocky Mtn. Forest and Range Expt. Station, Ft. Collins, CO; and Ronald A. Ryder, Dept. Fishery and Wildlife Biology, Colorado State University, Ft. Collins, CO, "Size, spacing, and utilization of breeding territories by Flammulated Owls."

Robert D. Ohmart, William C. Hunter, and Bertin W. Anderson, Center for Environmental Studies, Arizona State University, Tempe, AZ, "We are out of the woods and so are the birds."

David L. Fischer, Dept. Zoology, Brigham Young University, Provo, UT, "Ranging behavior of Cooper's Hawk (*Accipiter cooperii*) and Sharp-shinned Hawk (*A. striatus*) in Utah."

George T. Allen, Zoology Dept., North Dakota State University, Fargo, ND, "Estimation of the nesting populations of Prairie Falcons (*Falco mexicanus*) and Golden Eagles (*Aquila chrysaetos*) in North Dakota."

D. A. Palmer, Dept. Fishery and Wildlife Biology, Colorado State University, Ft. Collins, CO, "Microhabitat segregation patterns between two species of the genus *Aegolius* in north-central Colorado."

John M. Marzluff, Dept. Biological Sciences, Northern Arizona University, Flagstaff, AZ, "Do Pinyon Jays have friends?"

D. Arch McCallum, Dept. Biology, University of New Mexico, Albuquerque, NM, and D. C. Bolster, Cottonwood Gulch Foundation, Thoreau, NM, "An experimental study of intraflock dispersion in the Mountain Chickadee."

T. David Pitts, Biology Dept., University of Tennessee, Martin, TN, "Size and organization of Eastern Bluebird flocks in Tennessee."

Stephen Pruett-Jones and Melinda Pruett-Jones, Dept. Biology, University of California at San Diego, La Jolla, CA. "Home range and use of space in Lawes' Parotia: a frugivorous, lek-mating bird of paradise."

Doris J. Watt, Dept. Biology, Saint Mary's College, Notre Dame, IN, "Selfish site selection in roosting tropical birds."

Michael R. Conover, Dept. Plant Pathology and Ecology, Connecticut Agric. Expt. Sta., New Haven, CT, "Passive mobbers and the cultural transmission of predator information in gull colonies."

- Tex A. Sordahl, Biology Dept., Luther College, Decorah, IA, "On the occurrence of predator-mobbing in shorebirds."
- Wesley W. Weathers, Dept. Avian Sciences, University of California, Davis, CA, "Thermal correlates of the Blue-black Grassquit's unique display."
- Carol M. Vleck, Dept. Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ, "Nesting season and reproductive hormones in a Sonoran Desert bird, the Curve-billed Thrasher."
- Guy A. Baldassarre, Dept. Zoology-Entomology, Auburn University, Auburn, AL, "Changes in body weight and carcass composition of non-breeding Green-winged Teal on the southern high plains of Texas."
- Cynthia Carey, Dept. EPO Biology, University of Colorado, Boulder, CO; F. Leon-Velarde, G. Castro, and C. Monge, Universidad Peruana Cayetano Heredia, Lima, Peru, "Adaptation of avian eggs to high altitudes in the Peruvian Andes."
- John S. Kirkley, Dept. Biology, Utah State University, Logan, UT, "Heat stress and the water budget of nestling Swainson's Hawks."
- Sheila A. Mahoney, Dept. Biological Sciences, Florida Atlantic University, Boca Raton, FL, and Joseph R. Jehl, Jr., Hubbs-Sea World Research Inst., San Diego, CA, "Avoidance of salt-loading by birds inhabiting an alkaline lake."
- Charles R. Blem, Dept. Biology, Virginia Commonwealth University, Richmond, VA, "Mathematical prediction of lipid depots in small birds."
- J. W. Hupp, Dept. Fishery and Wildlife Biology, Colorado State University, Ft. Collins, CO, "Spring changes in lipid reserves of adult male Sage Grouse."
- B. S. Obst, Dept. Biology, University of California, Los Angeles, CA, "Wax digestion in Wilson's Storm-Petrel (*Oceanites oceanicus*)."
- Jeffrey D. Brawn, Dept. Biological Sciences, Northern Arizona University, Flagstaff, AZ, "Experimental analyses of density and habitat effects on the breeding biology of Western Bluebirds."
- Terry Root, Biology Dept., Princeton University, Princeton, NJ, "Continent-wide examination of distribution and abundance patterns."
- J. J. Rotella, Program in Wildlife Biology, Washington State University, Pullman, WA, "A test of the assumed relationship between population density and number of birds vocalizing."
- Cynthia Staicer, Cabo Rojo National Wildlife Refuge, Boqueron, PR, "Spacing behavior of migrant and resident warbler species in winter in southwestern Puerto Rico."
- Michael L. Avery and Charles Van Riper III, CPSU, National Park Service, Wickson Hall, University of California, Davis, CA, "Year-to-year changes in winter bird population levels at Pinnacles National Monument, California."
- David F. DeSante, Point Reyes Bird Observatory, Stinson Beach, CA, "A field test of the variable circular-plot censusing technique in a Sierran subalpine forest breeding bird community."
- Robert B. Hamilton, School of Forestry, Wildlife, and Fisheries, Louisiana State University, Baton Rouge, LA, and G. D. Lester, Louisiana Natural Heritage Program, DNR/CMD, P.O. Box 44124, Baton Rouge, LA, "Sample size requirements for computing diversity in a mixed pine-upland hardwood forest in central Louisiana."
- Douglas B. Inkley and Stanley H. Anderson, Wyoming Cooperative Fish and Wildlife Research Unit, Laramie, WY, "Species richness patterns of birds in North America."
- S. D. Schemnitz and T. D. Potter, Dept. Fishery and Wildlife Sciences, New Mexico State University, Las Cruces, NM, "Status and ecology of Gould's Turkey in the United States."
- John L. Zimmerman and Elmer J. Finck, Div. Biology, Kansas State University, Manhattan, KS, "Disturbance frequency and population stability."

- V. L. St. Louis and J. C. Barlow, Dept. Zoology, University of Toronto, Toronto, ONT, "Genetic differences between introduced Illinois and ancestral *Passer montanus*."
- Richard C. Banks, U.S. Fish and Wildlife Service, Washington, D.C., "Identification of Willow and Rock Ptarmigan (*Lagopus lagopus* and *L. mutus*) by wing formula differences."
- Ned K. Johnson, Museum of Vertebrate Zoology, University of California, Berkeley, CA, and Robert M. Zink, Museum of Zoology, Louisiana State University, Baton Rouge, LA, "Genetic evidence for the relationships among Red-eyed, Yellow-green, and Chivi vireos."
- J. W. Hardy, Florida State Museum, University of Florida, Gainesville, FL, and T. A. Parker III, Museum of Zoology, Louisiana State University, Baton Rouge, LA, "Comments on the systematics and behavioral ecology of New World thrushes based on vocalization."
- Kenneth C. Parkes, Carnegie Museum of Natural History, Pittsburgh, PA, and George A. Hall, Chemistry Dept., West Virginia University, Morgantown, WV, "What is xanthochroism?"
- Stephen I. Rothstein and Robert C. Fleischer, Dept. Biological Sciences, University of California, Santa Barbara, CA, "Dialects and biogeographic patterns of range extension in western cowbirds."
- G. F. Shields, Inst. Arctic Biology, University of Alaska, Fairbanks, AK, and Allan C. Wilson, Dept. Biochemistry, University of California, Berkeley, CA, "Relationships of Canada Geese (*Branta canadensis*) as inferred from restriction endonuclease analysis of mitochondrial (mt) DNA."
- James R. Philips, Math/Science Division, Babson College, Babson Park, MA, "Bird-lousefly-mite associations."
- Joel Cracraft, Field Museum of Natural History, Chicago, IL, "Monophyly and phylogenetic relationships of the Pelecaniformes."
- C. H. Trost and Cheryl Webb, Dept. Biology, Idaho State University, Pocatello, ID, "The effects of nest position and brood reduction on dominance and survival in young Black-billed Magpies (*Pica pica*)."
- Peter B. Stacey, Dept. Life Sciences, Indiana State University, Terre Haute, IN, "Helping in the Acorn Woodpecker: ecological constraints or mutualism?"
- Steven R. Beissinger, School of Natural Resources, University of Michigan, Ann Arbor, MI, "Mate desertion and reproductive effort in the Snail Kite."
- Robert R. Cohen, Dept. Biology, Metropolitan State College, Denver, CO, "First-come, first-served: mate and nest-site selection by returning successful breeders of a nest-box Tree Swallow population."
- Raleigh J. Robertson and D. Leffelaar, Dept. Biology, Queen's University, Kingston, ONT, "Division of labor and the implications for the mating system in Tree Swallows (*Tachycineta bicolor*)."
- Robert W. Butler, Canadian Wildlife Service, Box 340, Delta, BC, "Age-related mimicry in Tree Swallows (*Tachycineta bicolor*)."
- Mary V. McDonald, Dept. Zoology, University of Florida, Gainesville, FL, "Functions of female vocalizations in Scott's Seaside Sparrows (*Ammodramus maritimus peninsulae*)."
- Glen E. Woolfenden, Dept. Biology, University of South Florida, Tampa, FL, and John W. Fitzpatrick, Field Museum of Natural History, Chicago, IL, "Components of lifetime reproductive success in the Florida Scrub Jay."
- Michael H. Tove, Dept. Biology, Utah State University, Logan, UT, "Song structuring by House Wrens."
- James N. M. Smith, K. Glenna Stewart, Ian G. McClean, and David M. G. Newell, Dept. Zoology, University of British Columbia, Vancouver, BC, "Variable breeding dispersion in the American Robin."
- David E. Blockstein, Bell Museum of Natural History, Dept. Ecology and Behavioral Biology,

- University of Minnesota, Minneapolis, MN, "Site fidelity and reuse of nests by Mourning Doves (*Zenaida macroura*)."
- R. R. Hitchcock and Ralph E. Mirarchi, Dept. Zoology-Entomology and Alabama Agric. Expt. Sta., Auburn University, Auburn, AL, "Dispersal movements of recently-fledged Mourning Doves (*Zenaida macroura*) from nest sites."
- Ann Marie Wyckoff, Dept. Biology, University of North Dakota, Grand Forks, ND, "Fidelity in Chestnut-collared Longspurs (*Calcarius ornatus*) in an eastern population."
- D. Westmoreland, Dept. Animal Ecology, Iowa State University, Ames, IA, "Incubation continuity and the advantage of cryptic egg coloration in open-nesting birds."
- Kenneth M. Giesen and Clait E. Braun, Colorado Division of Wildlife, Ft. Collins, CO, "Demography of White-tailed Ptarmigan (*Lagopus leucurus*) in Rocky Mountain National Park, Colorado."
- Brian S. Cade, Dept. Fisheries and Wildlife Biology, Colorado State University, Ft. Collins, CO, "Habitats preferred by Blue Grouse (*Dendragapus obscurus*) during winter and their spatial relation to breeding areas."
- William R. Eddleman, Wyoming Cooperative Res. Unit, Box 3166, University Station, University of Wyoming, Laramie, WY, "Habitat use patterns of American Coots during fall migration in Oklahoma."
- Michael L. Morrison, I. C. Timossi, and K. A. With, Dept. Forestry and Resource Mgmt., University of California, Berkeley, CA; and P. N. Manley, Dept. Wildlife Manage., Humboldt State University, Arcata, CA, "Use of tree species by forest birds during winter and summer."
- John P. Kelly, Dept. Wildlife Manage., Humboldt State University, Arcata, CA, "Habitat use by riparian forest birds in the Eel River Delta, California."
- D. J. Ingold, Dept. Biological Sciences, Mississippi State University, Mississippi State, MS, "A study of cavity site parameters in a guild of hole-nesting birds in the Colorado Rockies."
- Richard N. Conner and K. A. O'Halloran, Southern Forest Experiment Sta., USDA Forest Service, Nacogdoches, TX, "A comparison of Red-cockaded Woodpecker (*Picoides borealis*) cavity trees in east Texas."
- Jerome A. Jackson and B. J. S. Jackson, Dept. Biological Sciences, Mississippi State University, Mississippi State, MS, "Why do Red-cockaded Woodpeckers require old trees?"
- Alexander Cruz, EPO Biology, University of Colorado, Boulder, CO, and James W. Wiley, Puerto Rico Field Section, USFWS, Palmer, PR, "The loss of egg-rejection behavior in the Village Weaver (*Ploceus cuculatus*) on Hispaniola."
- Ralph W. Schreiber and Elizabeth A. Schreiber, Los Angeles County Museum, Los Angeles, CA, "Something about the Southern Oscillation."
- Tammie K. Nakamura and Alexander Cruz, EPO Biology, University of Colorado, Boulder, CO, "Comparative nesting biology of introduced finches in southwestern Puerto Rico."
- T. Y. Wang and C. J. Pei, Inst. Biology, Taiwan Normal University, Taipei, Taiwan, "A preliminary study on the breeding behavior of the Formosan Whistling Thrush."
- Frank A. Pitelka, Dept. Zoology, University of California, Berkeley, CA, "Levels of analysis in research on avian lekking systems."
- J. K. Gutzwiller and S. H. Anderson, Wyoming Cooperative Fish and Wildlife Research Unit, Laramie, WY, "Simultaneous and sequential use of snags and limbs by breeding cavity-nesting birds."
- J. P. L. Savard, Canadian Wildlife Service, P.O. Box 340, Delta, BC, "Use of nest boxes by Barrow's Goldeneye and American Kestrels in the aspen parkland of British Columbia."
- Harlo H. Hadow, Dept. Biology, Coe College, Cedar Rapids, IA, "Hoffman's Woodpeckers back into nest cavities."
- L. Barrie-Hunt and Shirley F. Hunt, Zoology Dept., Eastern Illinois University, Charleston, IL, "Hole-site selection by saguaro-excavating woodpeckers."

- S. B. Gaines, School of Biological Sciences, University of Nebraska, Lincoln, NE, "Tests of three foraging hypotheses for wintering American Tree Sparrows (*Spizella arborea*)."
- P. Hendricks, Dept. Zoology, University of Montana, Missoula, MT, "Foraging ecology of alpine-nesting Water Pipits."
- Russell P. Balda and John Mazluff, Northern Arizona University, Flagstaff, AZ, and Glen E. Woolfenden, University of South Florida, Tampa, FL, "Food-caching behavior by the Black-billed Magpie in an urban setting at the 1985 Cooper-Wilson meeting."
- Frank B. Gill, Academy of Natural Sciences, Philadelphia, PA, "Three hermits and a *Heliconia*: the coevolutionary cliff."
- Kenneth L. Petersen and Louis B. Best, Dept. Animal Ecology, Iowa State University, Ames, IA, "Diet composition of nestling Sage and Brewer's sparrows in an Idaho sagebrush community."
- C. John Ralph, U.S. Forest Service, Redwood Sciences Laboratory, 1700 Bayview Dr., Arcata, CA, "Life history adaptations of native Hawaiian nectar specialists."
- Lester L. Short, American Museum of Natural History, New York, NY, and Jennifer F. M. Horne, National Museums Kenya, Nairobi, Kenya, "Feeding strategies of Pallid and Lesser Honeyguides at artificial beeswax sites."
- Diana F. Tomback and K. L. Burnell, Dept. Biology, University of Colorado, Denver, CO, "Foraging preferences of Clark's Nutcrackers: predictions and preliminary data."
- Wayne Trivelpiece and Susan Trivelpiece, Point Reyes Bird Observatory, Stinson Beach, CA, "Foraging behavior of Gentoo and Chinstrap penguins as determined by new radio-telemetry techniques."
- Joseph R. Jehl, Jr., Hubbs-Sea World Research Institute, 1700 South Shores Rd., San Diego, CA, "Aspects of the fall migration of Eared Grebes: does physical fitness equal genetic fitness?"
- J. P. Myers, G. Castro, J. L. Maron, E. Ortiz, M. Sallaberry, C. T. Schick, and E. Tabilo, Academy of Natural Sciences, Philadelphia, PA, "Circumcontinental migration by Sand-erlings (*Calidris alba*)."
- A. J. Erskine, Canadian Wildlife Service, Sackville, NB, "The changing patterns of Brant (*Branta bernicula*) migration in eastern North America."
- Walter K. Taylor, Dept. Biological Sciences, University Central Florida, Orlando, FL, and Mark A. Kershner, Dept. Biological Sciences, Mississippi State University, Mississippi State, MS, "Bird casualties at the vehicle assembly building (VAB), Brevard County, Florida."
- Stanley A. Temple, Dept. Wildlife Ecology, University of Wisconsin, Madison, WI, "Predicting avian response to forest fragmentation."
- Elliot J. Tramer, Dept. Biology, University of Toledo, Toledo, OH, "Dredge spoil enclosures: effects on aquatic birdlife."
- Charles Collins, Dept. Biology, California State University, Long Beach, CA, "Philopatry in the California Least Tern: management implications."
- F. L. Knopf, Denver Wildlife Research Center, Ft. Collins, CO, "Changing landscapes and the cosmopolitanism of the eastern Colorado avifauna."
- Emil K. Urban, Dept. Biology, Augusta College, Augusta, GA, "Status of cranes in Africa in 1984."

ATTENDANCE

ALABAMA: Auburn, Guy Baldassarre, Ralph Mirarchi.

ARIZONA: Green Valley, Jack von Bloeker; Flagstaff, Russell Balda, Jeff Brawn, John Marzluff; Portal, Charles Schaughency, Mildred Schaughency; Tempe, Bob Ohmart; Tucson, Rick Bowers, John Dunning, Jr., Donald Lamm, Laurie McKean, Ruth Ogden, Steven Russell, Robert Tweet, Carol Vleck; Williams, James Griffing.

CALIFORNIA: *Arcata*, C. John Ralph; *Berkeley*, William Block, Ned K. Johnson, Michael Morrison, Sherry Morrison, Anita Pearson, Oliver Pearson, Frank Pitelka, Thomas Scott, Gerald Shields; *Davis*, Daniel W. Anderson, Michael Avery, Charles van Riper III, Wesley Weathers; *Fresno*, Kelly Ervin, Stephen Ervin, Jared Verner; *Hayward*, Howard Cogswell; *Livermore*, Barbara Kermeen; *Long Beach*, Charles Collins, Patricia Collins; *Los Angeles*, Martin Morton, James Northern, Betty Anne Schreiber, Ralph Schreiber; *Pacific Palisades*, Lloyd Kiff; *Palo Alto*, Ted Chandik; *San Diego*, Joseph Jehl, Jr., Stephen Pruett-Jones, Jan Victoria; *San Francisco*, Margaret Orr, Robert Orr; *San Jose*, L. Richard Mewaldt; *San Leandro*, Elsie Richey; *Santa Barbara*, Rosendo Fraga, Stephen Rothstein; *Santa Monica*, Bryan Obst; *Stinson Beach*, David DeSante, John Kelly, Susan Trivelpiece, Wayne Trivelpiece.

COLORADO: *Aurora*, Lois Webster; *Boulder*, Carl E. Bock, Cynthia Carey, C. Eugene Knoder, J. G. Strauch; *Conifer*, Wayne Wathen; *Denver*, Charles Chase III, Robert Cohen, Blair Csuti, Tina Jones, Diana Tomback, Betsy Webb; *Evergreen*, Fran Enright; *Ft. Collins*, Clait Braun, Ken Giesen, Jerry Hupp, Fritz Knopf, Brian Linkhart, David Palmer, R. T. Reynolds, Ronald Ryder; *Littleton*, Gene Hendricks.

CONNECTICUT: *New Haven*, Michael Conover.

DISTRICT OF COLUMBIA: *Washington*, Richard Banks.

FLORIDA: *Boca Raton*, Shelia Mahoney; *Brooksville*, Manuel Lopez, *Gainesville*, Mary H. Clench, John W. Hardy, M. Victoria McDonald; *Tampa*, Glen Woolfenden, Jan Woolfenden.

GEORGIA: *Augusta*, Emil K. Urban, Lois L. Urban.

IDAHO: *Boise*, Karen Steenhof; *Pocatello*, C. H. Trost, C. L. Webb.

ILLINOIS: *Charleston*, L. Barrie Hunt, Shirley Hunt; *Chicago*, Joel Cracraft.

INDIANA: *Franklin*, Marcus Webster; *South Bend*, Doris Watt; *Terre Haute*, Peter Stacey.

IOWA: *Ames*, Louis Best, Kenneth Peterson; *Cedar Rapids*, Harlo Hadow; *Decorah*, Tex Sordahl.

KANSAS: *Baldwin City*, Roger Boyd; *Emporia*, John Parrish; *Lawrence*, Robert Chandler, Robert Mengel, Pamela Rasmussen; *Manhattan*, John L. Zimmerman.

LOUISIANA: *Baton Rouge*, Robert Hamilton.

MASSACHUSETTS: *Amherst*, Cynthia Staicer; *Marshfield*, David Clapp; *Middleboro*, Kathleen Anderson; *Wellesley*, James Philips.

MICHIGAN: *Ann Arbor*, Steven Beissinger, William Dawson, Louise Storer, Robert Storer; *Jackson*, Robert Whiting; *Pleasant Lake*, H. P. Zernickow.

MINNESOTA: *Minneapolis*, David Blockstein; *St. Paul*, John Probst.

MISSISSIPPI: *Mississippi State*, Danny Ingold, Bette Jackson, Jerome Jackson, Mark A. Kershner.

MISSOURI: *Cape Girardeau*, Richard Stiehl.

MONTANA: *Missoula*, Paul Hendricks, Richard Hutto, Susan Reel.

NEBRASKA: *Grand Island*, Gary Lingle; *Hartington*, Steve Dybdal; *Lincoln*, Thomas Labeledz; *Seward*, Joseph Gubanyi; *Wakefield*, Paul Pearson.

NEW HAMPSHIRE: *Lebanon*, Peter Stettenheim; *Rumney*, Warren King.

NEW JERSEY: *Bloomfield*, Walter Protzman; *Maplewood*, Heman Adams; *Princeton*, Terry Root.

NEW MEXICO: *Albuquerque*, Arch McCallum, James Travis; *Las Cruces*, Brian Locke, Ralph Raitt, S. D. Schemnitz; *Sante Fe*, Bill Eley, John Hubbard, Greg Schmitt.

NEW YORK: *Aurora*, A. Thomas Vawter; *Ithaca*, Charles Walcott; *Lansing*, Helen Lapham; *New York*, Dean Amadon, Mrs. Dean Amadon, Susan R. Drennan, John Farrand, Jr., Mary LeCroy, Lester Short.

- NORTH CAROLINA: *Chapel Hill*, Helmut Mueller, Nancy Mueller; *Greensboro*, H. T. Hendrickson; *Raleigh*, Dave Lee.
- NORTH DAKOTA: *Grand Forks*, Ann Marie Wyckoff; *Fargo*, George Allen.
- OHIO: *Columbus*, Abbot Gaunt, Sandra Gaunt; *Gambier*, Robert D. Burns; *Lakewood*, Nancy Klammm, William Klammm; *Toledo*, Elliot Tramer; *University Heights*, Bruce McLean; *Youngstown*, Elizabeth Szabo.
- OREGON: *Albany*, Deborah Davis; *Portland*, Robert Grimm.
- PENNSYLVANIA: *Chester Springs*, Babs Street, Phillips Street; *Kempton*, Stan Senner; *Philadelphia*, Frank Gill, J. P. Myers; *Pittsburgh*, Kenneth Parkes.
- SOUTH CAROLINA: *Rock Hill*, Keith Bildstein.
- SOUTH DAKOTA: *Vermillion*, Byron Harrell, Joyce Harrell.
- TENNESSEE: *Knoxville*, Marcia Davis, Jim Tate; *Martin*, David Pitts; *Norris*, Linda Fowler.
- TEXAS: *Nacogdoches*, Richard Conner.
- UTAH: *Logan*, David Balph, Martha Balph, Jack Kirkley, Michael Tove; *Ogden*, Karl Marti; *Provo*, David Fischer, Joseph Murphy.
- VERMONT: *Middlebury*, Lee Jones; *Rupert*, Richard L. Plunkett.
- VIRGINIA: *Richmond*, Charles Blem, L. Blem; *Williamsburg*, Mitchell Byrd.
- WASHINGTON: *Albion*, Christine Paige; *Roche Harbor*, Jane Paige.
- WEST VIRGINIA: *Morgantown*, George Hall.
- WISCONSIN: *Madison*, Stanley Temple; *Menasha*, Michael Minock; *Menomonie*, Richard Wilson.
- WYOMING: *Dubois*, Peg Abbott; *Laramie*, Bill Eddleman, Deborah Finch, Kevin Gutzwiller, Douglas Inkley, Martin Raphael.
- BRITISH COLUMBIA: *Delta*, J-P Savard; *Surrey*, Douglas Wilson; *Vancouver*, Jamie Smith.
- NEW BRUNSWICK: *Sackville*, Anthony J. Erskine.
- ONTARIO: *Kingston*, Raleigh Robertson; *Port Rowan*, Martin McNicholl; *Toronto*, Jon Barlow, Vincent St. Louis.
- KENYA: *Nairobi*, Jennifer Horne.
- REPUBLIC OF CHINA: *Taipei*, Yin Wang.

1986 ANNUAL MEETING

The Sixty-seventh Annual Meeting of The Wilson Ornithological Society will be held in Gatlinburg, Tennessee, 17-20 April 1986 under the sponsorship of the Knoxville Chapter of the Tennessee Ornithological Society. David Pitts is chairing the Local Arrangements Committee. His address is Dept. Biology, Univ. Tennessee, Martin, Tennessee 38238.